



SPORTON LAB.

Certificate No: **FD940913**

CERTIFICATE OF COMPLIANCE

Authorized under Declaration of Conformity
according to

47 CFR, Part 2 and Part 15 of the FCC Rules



Testing Laboratory
1190



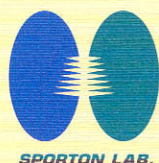
EQUIPMENT : IPC Boards

MODEL NO. : NF93-LF

APPLICANT : Jetway Information Co., LTD.

4F., NO. 168, LI THE ST.

CHUNG HO CITY 235 TAIPEI, TAIWAN, R.O.C.



I HEREBY

CERTIFY THAT:

THE MEASUREMENTS SHOWN IN THIS TEST REPORT WERE MADE IN
ACCORDANCE WITH THE PROCEDURES GIVEN IN **ANSI C63.4 - 2003** AND
THE ENERGY EMITTED BY THIS EQUIPMENT WAS **PASSED**
FCC Part 15 Subpart B in BOTH RADIATED AND CONDUCTED EMISSIONS
Class B LIMITS. THE TESTING WAS COMPLETED ON **Apr. 24, 2009** AT
SPORTON INTERNATIONAL INC. LAB.

Castries Huang Apr. 20, 2009

Castries Huang
Supervisor



FCC TEST REPORT

Authorized under **D**eclaration **o**f **C**onformity

According to

**47 CFR FCC Rules and Regulations Part 15 Subpart B,
Class B Digital Device**

Equipment : IPC Boards

Model No. : NF93-LF

Filing Type : Declaration of Conformity

Applicant : **Jetway Information Co., LTD.**
4F., NO. 168, LI THE ST.
CHUNG HO CITY 235, TAIPEI, TAIWAN, R.O.C.

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.
- Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by TAF.

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

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History of this test report

Original Report Issue Date: Apr. 30, 2009

No additional attachment.

Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

CERTIFICATE OF COMPLIANCE

Authorized under **D**eclaration of **C**onformity

According to

**47 CFR FCC Rules and Regulations Part 15 Subpart B,
Class B Digital Device**



Equipment : IPC Boards

Model No. : NF93-LF

Applicant : **Jetway Information Co., LTD.**
4F., NO. 168, LI THE ST.
CHUNG HO CITY 235, TAIPEI, TAIWAN, R.O.C.

I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 - 2003** and the energy emitted by this equipment was **passed FCC Part 15 Subpart B** in both radiated and conducted emission **Class B** limits.

Testing was carried out on Apr. 24, 2009 at **SPORTON International Inc.** LAB.


Castries Huang
Supervisor

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

1. General Description of Equipment under Test

1.1. Applicant

Jetway Information Co., LTD.
4F., NO. 168, LI THE ST.
CHUNG HO CITY 235, TAIPEI, TAIWAN, R.O.C.

1.2. Manufacturer

Same as 1.1

1.3. Basic Description of Equipment under Test

Equipment	: IPC Boards
Model No.	: NF93-LF
Trade Name	: Jetway
RJ45 Cable x2	: Non-Shielded, 20 m
HDMI Cable	: Shielded, 2.0 m
Data Cable Type	: Please see section 2.2 of this test report for details
Power Supply Type	: Switching
AC Power Cord	: Non-Shielded, 1.8 m, 3 pin

1.4. Feature of Equipment under Test

Please refer to user manual

2. Test Configuration of Equipment under Test

2.1. Test Manner

- a. The EUT has been associated with personal computer and peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner which tended to maximize its emission characteristics in a typical application.
- b. The mainboard was tested in accordance with section 15.32 of the FCC rules. Testing for radiated emissions was first performed with the mainboard installed in a typical enclosure but with the enclosure's cover removed so that the internal circuitry is exposed at the top and on at least two sides. And then the EUT was tested with enclosure's cover unless it pass the required limits at first condition.
- c. The complete test system included remote workstation, DELL LCD Monitor, DELL USB Keyboard, DELL USB Mouse, HP Printer, ACEEX Modem, A-DATA USB 2.0 Flash Disk, i-Acon Headset, KOKA Walk Man and EUT for EMI test. The remote workstation HP Compaq PC, DELL LCD Monitor, DELL PS/2 Keyboard and HP PS/2 Mouse. The PC included INTEL CPU, DELTA Power Supply, TRANSCEND RAM and HITACHI HDD.
- d. The following test modes were performed for EMI test:
Mode 1. CPU: 2.0GHz, DVI+VGA: 1280x1024 60Hz, LAN: 1Gbps, Close Case
Mode 2. CPU: 2.0GHz, HDMI+VGA: 1280x1024 60Hz, LAN: 1Gbps, Close Case
Mode 3. CPU: 2.0GHz, DVI+VGA : 1024x768 60Hz, LAN: 100Mbps, Close Case
Mode 4. CPU: 2.0GHz, DVI+VGA: 1280x1024 60Hz, LAN: 1Gbps, Open Case – Only for Radiation test
For Conduction test, cause "mode 1" generated the worst test result, it was reported as final data.
For Radiation test, cause "mode 1 & mode 4" generated the worst test result, it was reported as final data.
- e. Frequency range investigated: conduction 150 kHz to 30 MHz, radiation 30 MHz to 11000MHz.

2.2. Description of Test System

Support Unit 1. – LCD Monitor (DELL) – for local workstation

FCC ID	: N/A
Model No.	: 2408WFPB
Power Supply Type	: Switching
Power Cord	: Non-Shielded
Serial No.	: SP0026
Data Cable	: Shielded, 360 degree via metal backshells, 1.8m
Remark	: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 2. – LCD Monitor (DELL) – for local and remote workstation

FCC ID : N/A
Model No. : E198WFPF
Power Supply Type : Switching
Power Cord : Non-Shielded
Serial No. : SP0027
Data Cable : Shielded, 360 degree via metal backshells, 1.8m
Remark : This support device was tested to comply with FCC standards
and authorized under a declaration of conformity.

Support Unit 3. – USB Keyboard (DELL) – for local workstation

FCC ID : N/A
Model No. : SK-8115
Serial No. : SP0001
Data Cable : Shielded, 2.0m
Remark : This support device was tested to comply with FCC standards and
authorized under a declaration of conformity.

Support Unit 4. – PS/2 Mouse (DELL) – for local workstation

FCC ID : N/A
Model No. : MO56UO
Serial No. : SP0010
Data Cable : Shielded, 1.8m
Remark : This support device was tested to comply with FCC standards and
authorized under a declaration of conformity.

Support Unit 5. -- Modem (ACEEX) – for local workstation

FCC ID : IFAXDM1414
Model No. : DM1414
Power Supply Type : Linear
Power Cord : Non-Shielded
Serial No. : SP0065
Data Cable : Shielded, 360 degree via metal backshells, 1.15m

Support Unit 6. -- USB 2.0 Flash (ADATA) – for local workstation

FCC ID : N/A
Model No. : PD4
Serial No. : SP0075
Data Cable : Shielded, 0.5m

Support Unit 7. -- Headset (i-Acon) – for local workstation

FCC ID : N/A
Model No. : HOH-323-BK
Serial No. : SP0074
Data Cable : Non-Shielded, 2.0m

Support Unit 8. -- Walkman (KOKA) – for local workstation

FCC ID : N/A
Model No. : KW-246
Serial No. : SP0067
Data Cable : Non-Shielded, 1.7m

Support Unit 9. -- Personal Computer (hp Compaq) – for remote workstation

FCC ID : N/A
Model No. : D330uT
Power Supply Type : Switching
Power Cord : Non-Shielded
Serial No. : SP0047
Remark : This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 10. -- PS/2 Keyboard (HP) – for remote workstation

FCC ID : N/A
Model No. : KB-0133
Serial No. : SP0054
Data Cable : Shielded, 1.9m
Remark : This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 11. -- PS/2 Mouse (HP) – for remote workstation

FCC ID : JNZ211443
Model No. : M-S69
Serial No. : SP0035
Data Cable : Non-Shielded, 1.85m

Support Unit 12. -- CPU (INTEL) – for local workstation

Model No. : 2G
Serial No. : SP0151

.Support Unit 13. -- RAM (TRANSCEND) – for local workstation

Spec. : 2G
Serial No. : SP0117

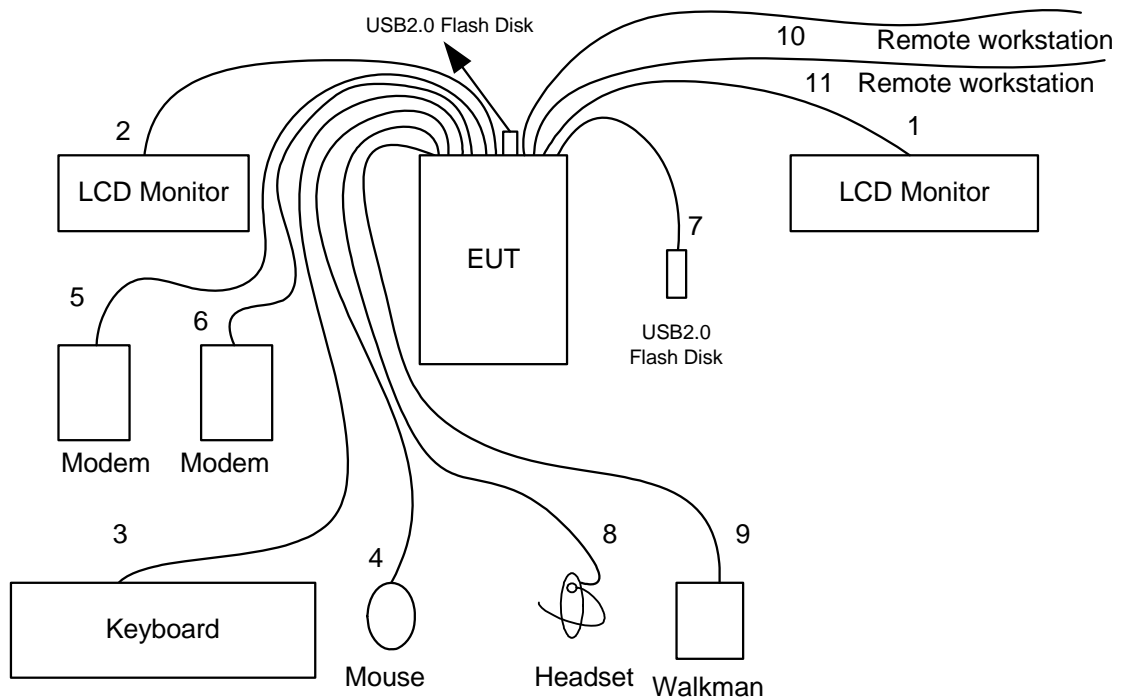
.Support Unit 14. – HDD (HITACHI) – for local workstation

Model No. : 80G
Serial No. : SP0119

Support Unit 15. -- Power Supply (DELTA)

Model No. : DPS-300AB-39B
Serial No. : SP0150

2.3. Connection Diagram of Test System



1. The I/O cable is connected from EUT to the support unit 1.
2. The I/O cable is connected from EUT to the support unit 2.
3. The I/O cable is connected from EUT to the support unit 3.
4. The I/O cable is connected from EUT to the support unit 4.
5. The I/O cable is connected from EUT to the support unit 5.
6. The I/O cable is connected from EUT to the support unit 5.
7. The I/O cable is connected from EUT to the support unit 6.
8. The I/O cable is connected from EUT to the support unit 7.
9. The I/O cable is connected from EUT to the support unit 8.
10. The RJ45 cable is connected from EUT to the remote workstation.
11. The RJ45 cable is connected from EUT to the remote workstation.

3. Test Software

An executive program, "EMCTEST.EXE" under WIN XP, which generates a complete line of continuously repeating " H " pattern was used as the test software.

The program was executed as follows :

- a. Turn on the power of all equipment.
- b. The PC reads the test program from the hard disk drive and runs it.
- c. The PC sends " H " messages to the monitor, and the monitor displays " H " patterns on the screen.
- d. The PC sends " H " messages to the modem.
- e. The PC sends " H " messages to the internal Hard Disk, and the Hard Disk reads and writes the message.
- f. Repeat the steps from c to e.

At the same time, the following test programs were executed:

- Executed "MEDIA PLAYER" to play music.
- Executed "PING.EXE" to link with the remote workstation to receive and transmit data by RJ45 cable.
- Executed "Winthrax.exe" to read and write data from external USB2.0 Flash Disk.

4. General Information of Test

4.1. Test Facility

Test Site Location : No. 3, Lane 238, Kang Lo Street, Nei Hwu District,
Taipei 11424, Taiwan, R.O.C.
TEL : 886-2-2631-4739
FAX : 886-2-2631-9740

Test Site No. : CO01-NH, OS02-NH

Test Site Location : No. 52, Hwa Ya 1St Road, Hwa Ya Technology Park,
Kwei-Shan Hsiang, TaoYuan Hsien, Taiwan, R.O.C.
TEL : 886-3-3273456
FAX : 886-3-3180055

Test Site No. : 03CH04-HY

4.2. Test Voltage

120V / 60Hz

4.3. Standard for Methods of Measurement

ANSI C63.4-2003

4.4. Test in Compliance with

FCC Rules and Regulations Part 15 Subpart B

4.5. Frequency Range Investigated

- a. Conduction: from 150 kHz to 30 MHz
- b. Radiation: from 30 MHz to 11000 MHz

4.6. Test Distance

- a. The test distance of radiated emission from antenna to EUT is 10M (from 30MHz~1000MHz).
- b. The test distance of radiated emission from antenna to EUT is 3 M (from 1GHz~9GHz).
- c. The test distance of radiated emission from antenna to EUT is 1 M (from 9GHz~11GHz).

5. Test of Conducted Powerline

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 5.3. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

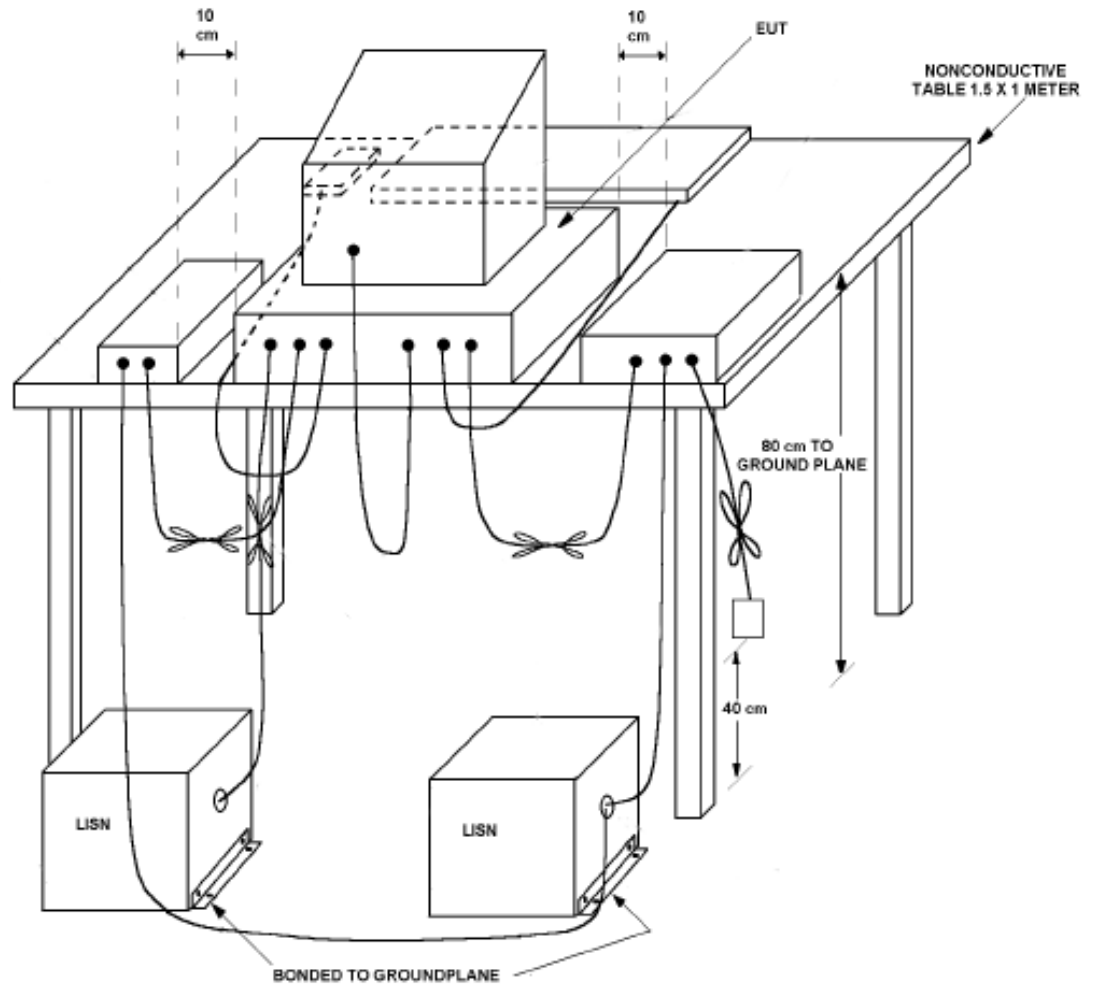
5.1. Major Measuring Instruments

• Test Receiver	(R&S ESCS 30)
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

5.2. Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connect to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

5.3. Typical Test Setup Layout of Conducted Powerline

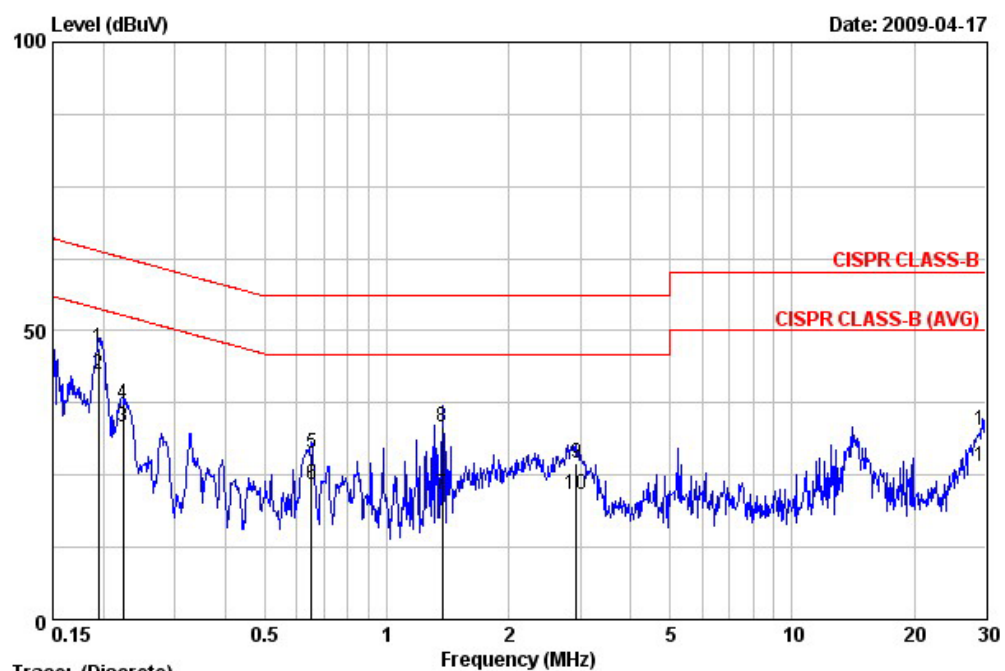


5.4. Test Result of AC Powerline Conducted Emission

5.4.1. Test Mode: Mode 1

- Frequency Range of Test: from 0.15 MHz to 30 MHz
- Temperature: 22
- Relative Humidity: 52 %
- Corrected Reading (dBuV) = LISN Loss + Cable Loss + Read Level = Level
- All emissions not reported here are more than 10 dB below the prescribed limit.

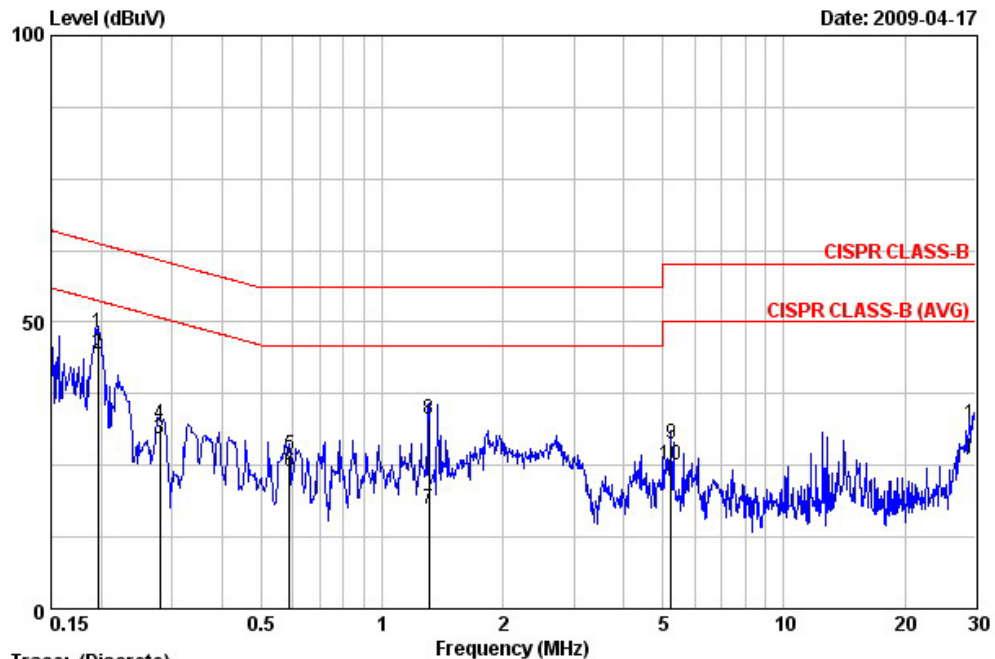
The test was passed at the minimum margin that marked by a frame in the following table



Trace: (Discrete)

Site : CO01-NH
 Condition : CISPR CLASS-B LISN-NSLK8127-971126 LINE
 eut :
 power : AC 120V
 memo :
 memo :
 memo :
 memo :

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.194	46.87	-16.97	63.84	46.83	0.04	0.00	QP
2	0.194	42.54	-11.30	53.84	42.50	0.04	0.00	AVERAGE
3	0.223	33.30	-19.40	52.70	33.26	0.04	0.00	AVERAGE
4	0.223	37.23	-25.47	62.70	37.19	0.04	0.00	QP
5	0.651	28.86	-27.14	56.00	28.81	0.05	0.00	QP
6	0.651	23.46	-22.54	46.00	23.41	0.05	0.00	AVERAGE
7	1.371	21.64	-24.36	46.00	21.59	0.05	0.00	AVERAGE
8	1.371	33.24	-22.76	56.00	33.19	0.05	0.00	QP
9	2.931	27.02	-28.98	56.00	26.88	0.08	0.05	QP
10	2.931	21.52	-24.48	46.00	21.38	0.08	0.05	AVERAGE
11	30.000	26.47	-23.53	50.00	25.35	0.72	0.40	AVERAGE
12	30.000	32.87	-27.13	60.00	31.75	0.72	0.40	QP



Trace: (Discrete)

Site : CO01-NH
 Condition : CISPR CLASS-B LISN-NSLK8127-971126 NEUTRAL
 eut :
 power : AC 120V
 memo :
 memo :
 memo :
 memo :

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.197	48.01	-15.75	63.76	47.98	0.03	0.00	QP
2	0.197	44.53	-9.23	53.76	44.50	0.03	0.00	AVERAGE
3	0.280	29.72	-21.09	50.81	29.69	0.03	0.00	AVERAGE
4	0.280	32.32	-28.49	60.81	32.29	0.03	0.00	QP
5	0.589	26.76	-29.24	56.00	26.73	0.03	0.00	QP
6	0.589	23.90	-22.10	46.00	23.87	0.03	0.00	AVERAGE
7	1.310	17.34	-28.66	46.00	17.29	0.05	0.00	AVERAGE
8	1.310	32.93	-23.07	56.00	32.88	0.05	0.00	QP
9	5.237	28.80	-31.20	60.00	28.58	0.12	0.10	QP
10	5.237	25.13	-24.87	50.00	24.91	0.12	0.10	AVERAGE
11	30.000	26.11	-23.89	50.00	25.28	0.43	0.40	AVERAGE
12	30.000	32.14	-27.86	60.00	31.31	0.43	0.40	QP

Test Engineer :

Eddie
 Eddie Lee

5.5. Photographs of Conducted Powerline Test Configuration

- The photographs show the configuration that generates the maximum emission.

FRONT VIEW



REAR VIEW



SIDE VIEW



6. Test of Radiated Emission

Radiated emissions from 30 MHz to 11000 MHz were measured with a bandwidth of 120 kHz for 30 MHz to 1000 MHz and 1 MHz for above 1GHz according to the methods defines in ANSI C63.4-2003. The EUT was placed on a nonmetallic stand, 0.8 meter above the ground plane, as shown in section 6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

6.1. Major Measuring Instruments

6.1.1. For 30MHz to 1GHz

- Amplifier (HP 8447D)
 - RF Gain 25 dB
 - Signal Input 0.1 MHz - 1.3 GHz
- Test Receiver (R&S ESCI)
 - Resolution Bandwidth 120 kHz
 - Frequency Band 9 kHz - 3 GHz
 - Quasi-Peak Detector ON for Quasi-Peak Mode
OFF for Peak Mode

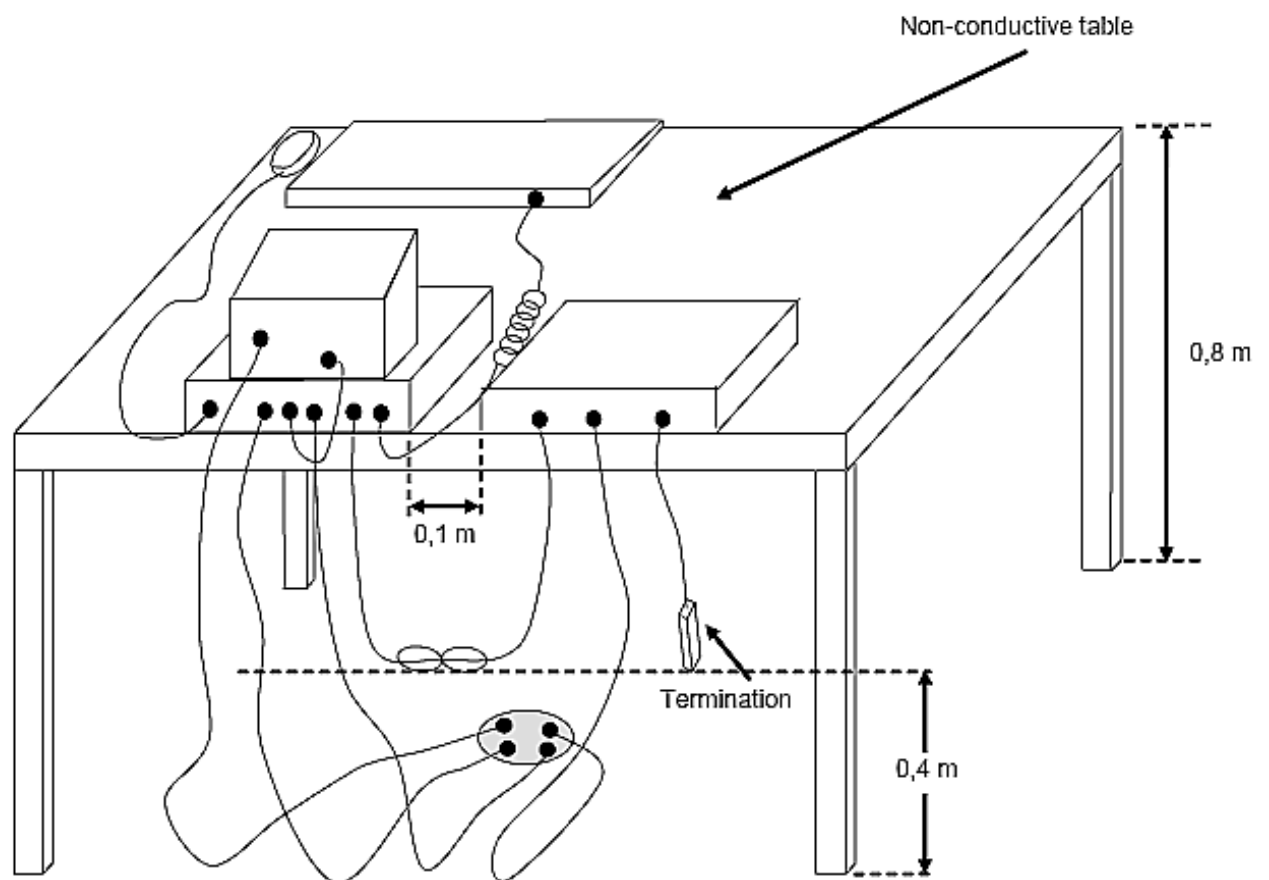
6.1.2. For 1GHz to 11GHz

- Amplifier (Agilent 8449B)
 - RF Gain 35 dB
 - Signal Input 1 GHz - 26.5 GHz
- Spectrum Analyzer (R&S FSP40)
 - Attenuation 10 dB
 - Start Frequency 1 GHz
 - Stop Frequency 11 GHz
 - Resolution Bandwidth 1 MHz
 - Video Bandwidth 1 MHz
 - Signal Input 9 kHz - 40 GHz

6.2. Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 1/3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

6.3. Typical Test Setup Layout of Radiated Emission



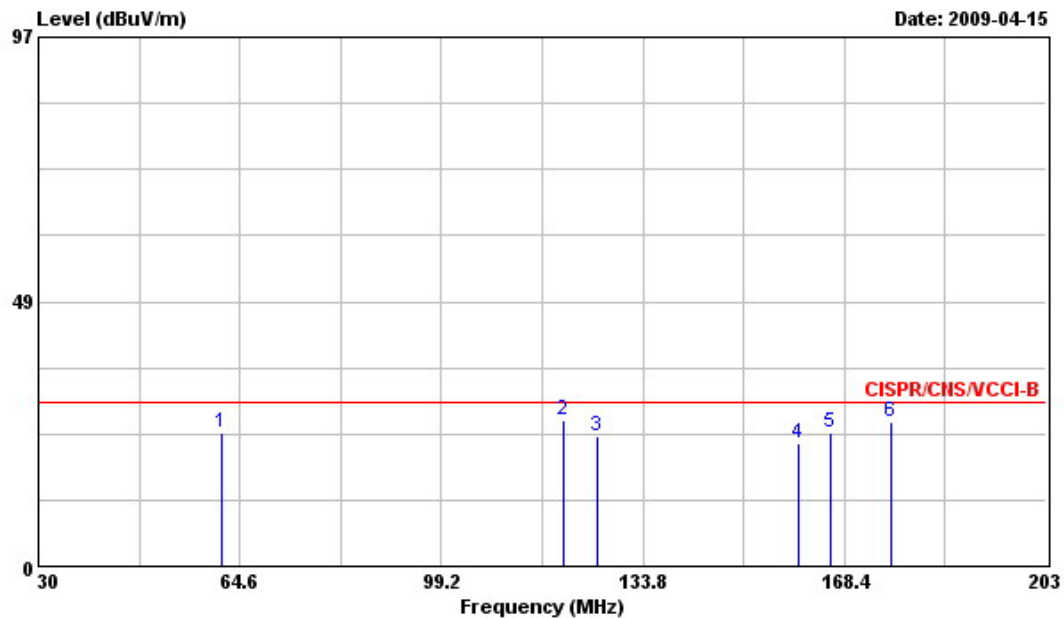
6.4. Test Result of Radiated Emission

6.4.1. Test Mode: Mode 1

- Frequency Range of Test: from 30 MHz to 11,000 MHz
- Temperature: 24
- Relative Humidity: 57 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

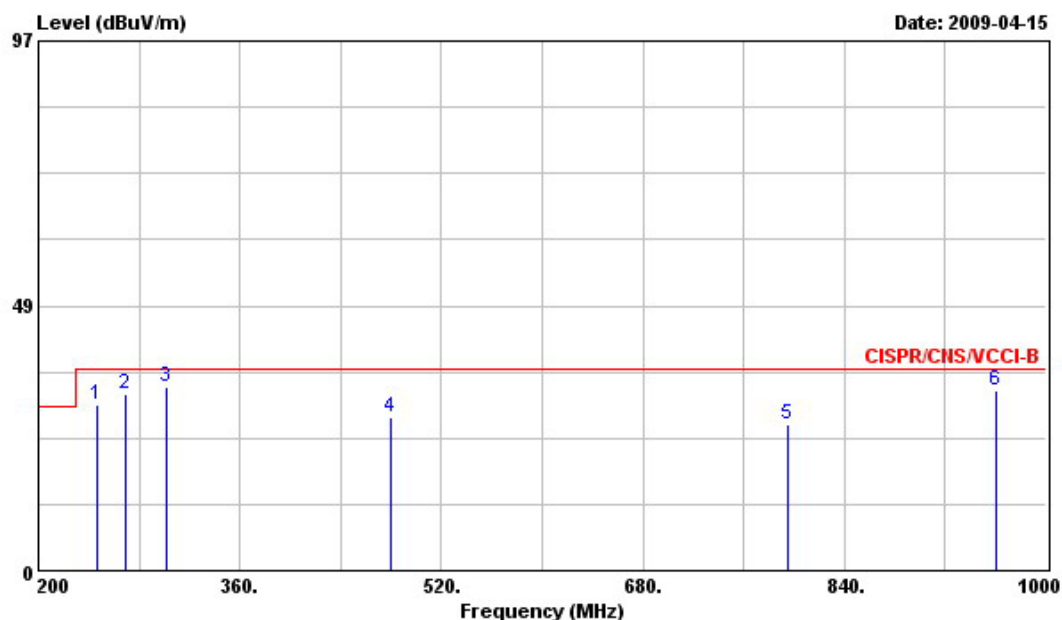
The test was passed at the minimum margin that marked by the frame in the following table

- Test Distance: 10M for 30MHz ~ 1GHz



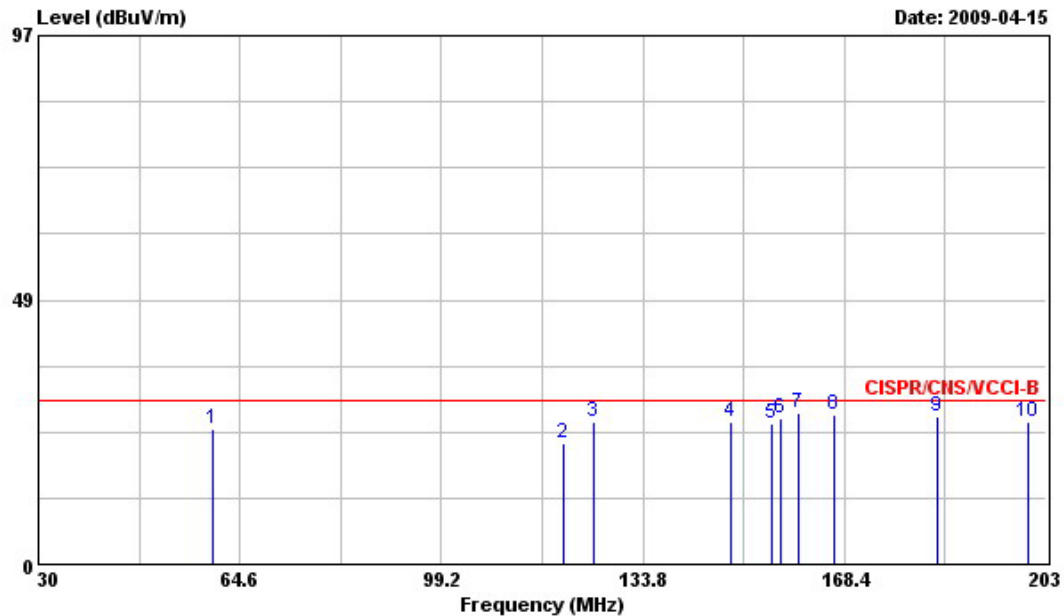
Site : OS02-NH
 Condition : CISPR/CNS/VCCI-B 10m OS02-ANT-12-27-2008 VERTICAL
 EUT :
 POWER :
 MEMO : DVI+VGA 1280*1024 60Hz; 1G

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Pos	Pos
									cm	deg
1	61.490	24.65	-5.35	30.00	48.54	6.31	1.15	31.35	Peak	---
2	120.130	26.92	-3.08	30.00	44.16	12.33	1.55	31.12	Peak	---
3	126.020	23.93	-6.07	30.00	41.38	12.06	1.59	31.10	Peak	---
4	160.440	22.62	-7.38	30.00	41.54	10.23	1.81	30.96	Peak	---
5	165.980	24.63	-5.37	30.00	43.77	9.95	1.85	30.94	Peak	---
6	176.530	26.59	-3.41	30.00	46.12	9.44	1.92	30.89	Peak	---



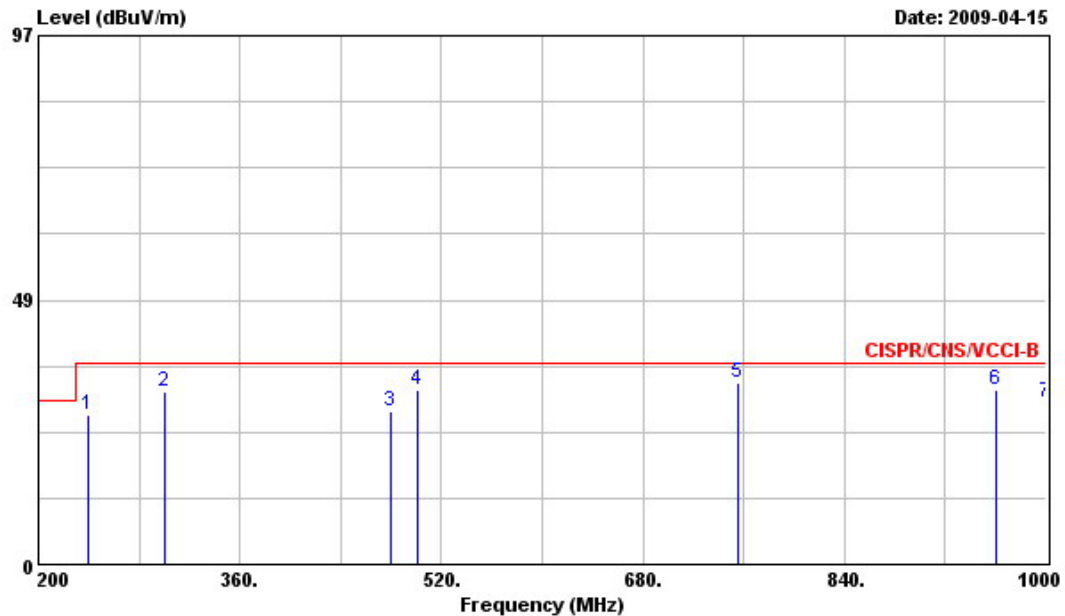
Site : OS02-NH
 Condition : CISPR/CNS/VCCI-B 10m OS02-ANT-12-27-2008 VERTICAL
 EUT :
 POWER :
 MEMO : DVI+VGA 1280*1024 60Hz; 1G

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	247.200	30.26	-6.74	37.00	46.35	12.33	2.29	30.71	Peak	---	---
2	268.800	32.43	-4.57	37.00	47.84	12.85	2.40	30.66	Peak	---	---
3	301.600	33.48	-3.52	37.00	48.05	13.45	2.59	30.61	Peak	---	---
4	479.200	28.09	-8.91	37.00	38.70	17.48	3.35	31.44	Peak	---	---
5	795.200	26.94	-10.06	37.00	33.32	20.03	4.60	31.01	Peak	---	---
6	960.000	32.98	-4.02	37.00	36.93	21.13	5.28	30.36	Peak	---	---



Site : OS02-NH
 Condition : CISPR/CNS/VCCI-B 10m OS02-ANT-12-27-2008 HORIZONTAL
 EUT :
 POWER :
 MEMO : DVI+VGA 1280*1024 60Hz; 1G

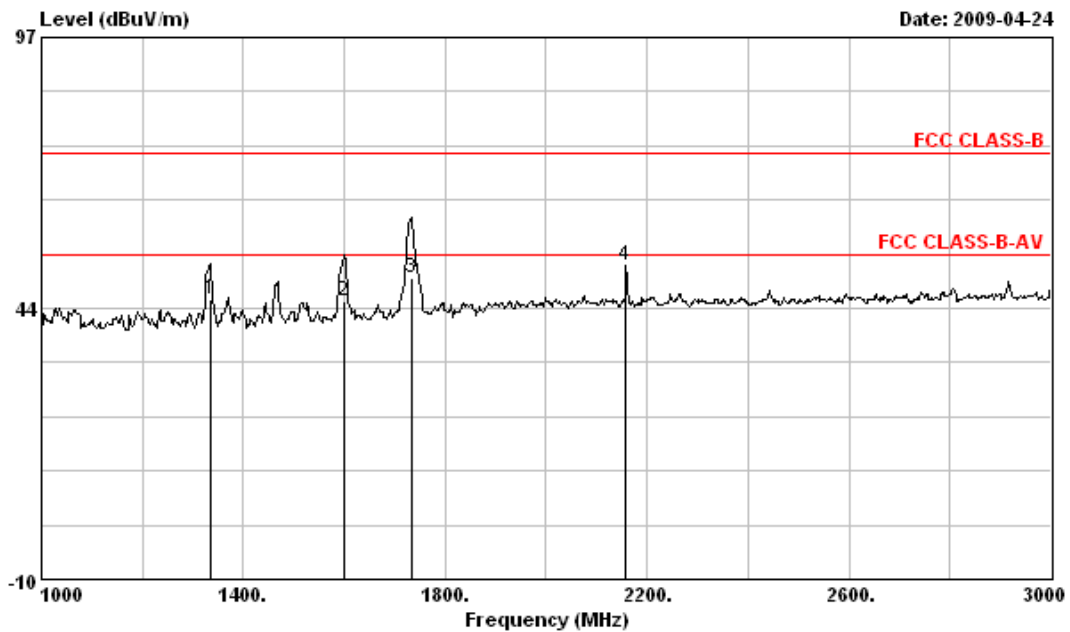
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	60.100	24.79	-5.21	30.00	48.70	6.32	1.13	31.36	Peak	---	---
2	120.310	22.21	-7.79	30.00	39.45	12.33	1.55	31.12	Peak	---	---
3	125.320	26.06	-3.94	30.00	43.46	12.11	1.59	31.10	Peak	---	---
4	148.850	26.26	-3.74	30.00	44.95	10.58	1.74	31.01	Peak	---	---
5	155.940	25.90	-4.10	30.00	44.76	10.34	1.78	30.98	Peak	---	---
6	157.500	26.70	-3.30	30.00	45.57	10.31	1.79	30.97	Peak	---	---
7	160.440	27.78	-2.22	30.00	46.70	10.23	1.81	30.96	QP	100	180
8	166.670	27.42	-2.58	30.00	46.60	9.90	1.86	30.94	QP	---	---
9	184.490	27.13	-2.87	30.00	46.77	9.28	1.94	30.86	QP	---	---
10	199.890	26.13	-3.87	30.00	45.63	9.25	2.05	30.80	Peak	---	---



Site : OS02-NH
 Condition : CISPR/CNS/VCCI-B 10m OS02-ANT-12-27-2008 HORIZONTAL
 EUT :
 POWER :
 MEMO : DVI+VGA 1280*1024 60Hz; 1G

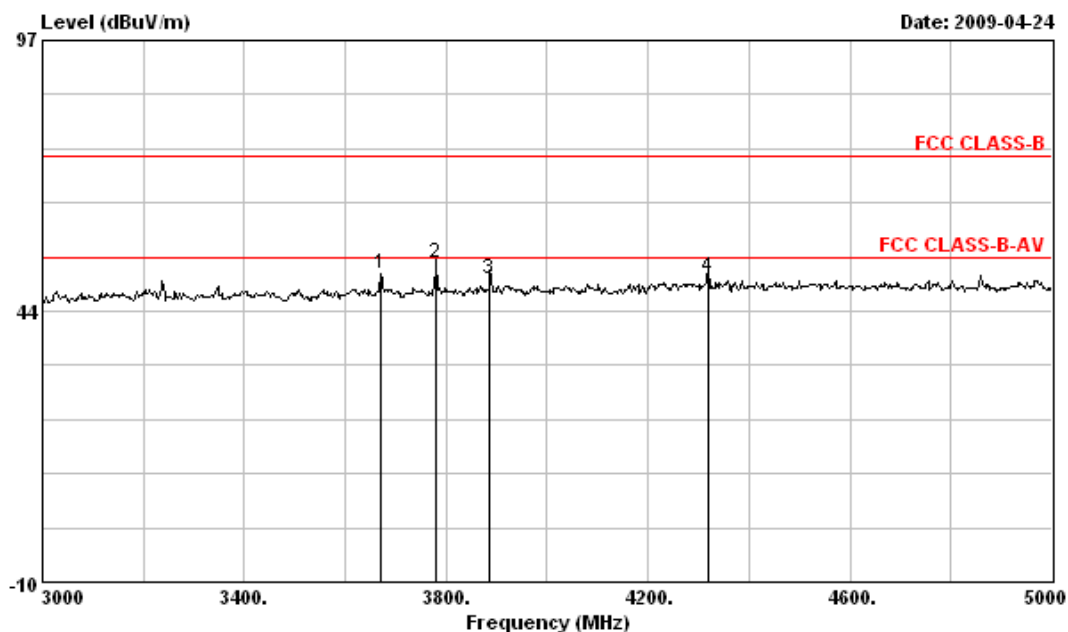
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	240.000	27.45	-9.55	37.00	44.10	11.83	2.24	30.72	Peak	---	---
2	300.800	31.68	-5.32	37.00	46.27	13.43	2.58	30.60	Peak	---	---
3	480.000	27.94	-9.06	37.00	38.53	17.50	3.35	31.44	Peak	---	---
4	500.800	32.08	-4.92	37.00	42.16	17.98	3.44	31.50	Peak	---	---
5	756.000	33.33	-3.67	37.00	40.35	19.70	4.41	31.13	Peak	---	---
6	960.000	31.93	-5.07	37.00	35.88	21.13	5.28	30.36	Peak	---	---
7	1000.000	29.62	-7.38	37.00	33.01	21.39	5.42	30.20	Peak	---	---

- Test Distance: 3M from 1000 MHz ~ 9000 MHz, 1M from 9000 MHz ~ 11000 MHz



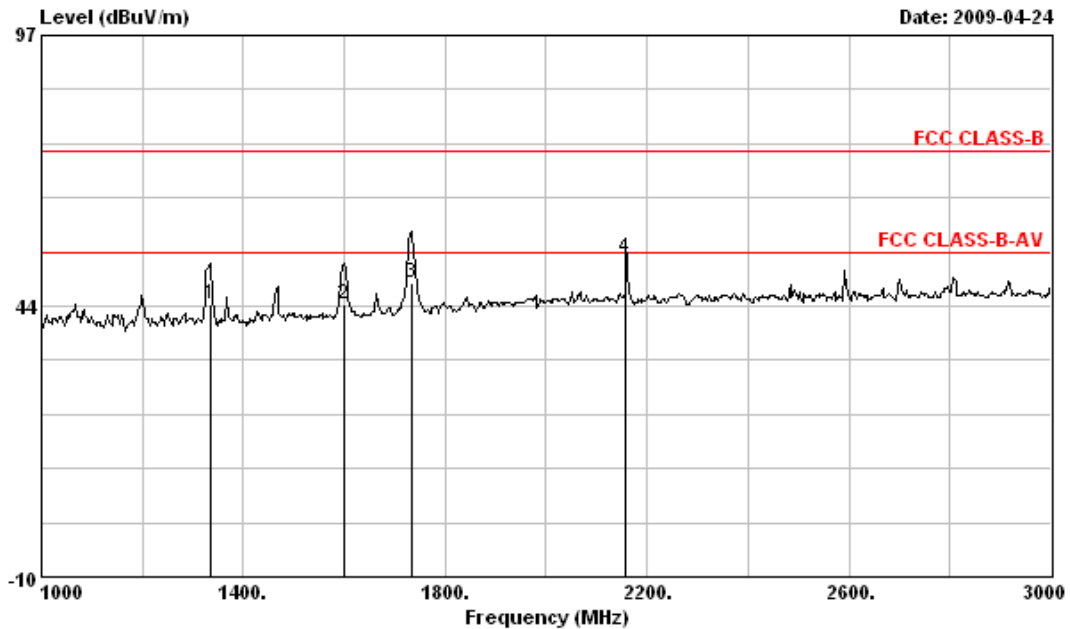
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
 EUT :
 POWER :
 MODEL :
 MEMO : DVI + D-sub 1280*1024 60Hz
 MEMO : CPU : 2.0GHz
 MEMO :

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1334.000	45.30	-8.70	54.00	48.07	28.58	33.95	2.60	---	--- Average
2	1598.000	45.07	-8.93	54.00	46.46	29.42	33.70	2.89	---	--- Average
3	1732.000	49.42	-4.58	54.00	49.72	30.38	33.70	3.02	---	--- Average
4 @	2158.000	51.88	-2.12	54.00	49.73	32.39	33.73	3.49	---	--- Average



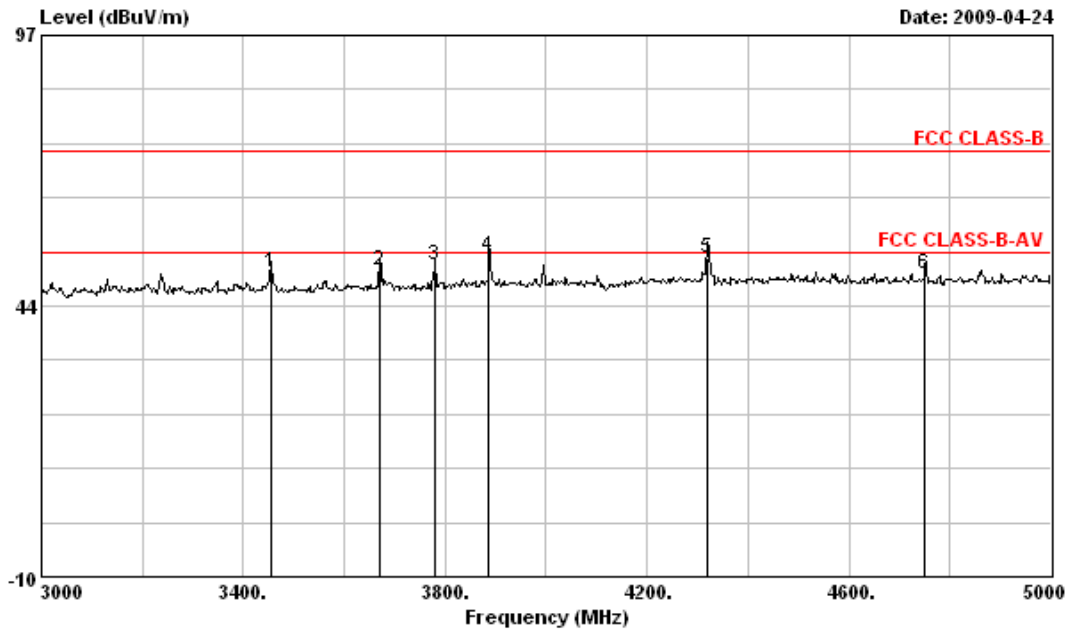
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
 EUT :
 POWER :
 MODEL :
 MEMO : DVI + D-sub 1280*1024 60Hz
 MEMO : CPU : 2.0GHz
 MEMO :

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3670.000	50.95	-23.05	74.00	46.42	33.64	34.17	5.05	---	---	Peak
2 @	3780.000	52.87	-1.13	54.00	47.95	33.89	34.15	5.18	---	---	Average
3	3886.000	49.73	-4.27	54.00	44.49	34.09	34.13	5.28	---	---	Average
4	4318.000	50.24	-3.76	54.00	44.20	34.68	34.23	5.58	---	---	Average



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
 EUT :
 POWER :
 MODEL :
 MEMO : DVI + D-sub 1280*1024 60Hz
 MEMO : CPU : 2.0GHz
 MEMO :


	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1334.000	43.83	-10.17	54.00	46.60	28.58	33.95	2.60	---	---	Average
2	1598.000	43.79	-10.21	54.00	45.18	29.42	33.70	2.89	---	---	Average
3	1732.000	48.25	-5.75	54.00	48.55	30.38	33.70	3.02	---	---	Average
4 @	2158.000	53.02	-0.98	54.00	50.87	32.39	33.73	3.49	---	---	Average



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
 EUT :
 POWER :
 MODEL :
 MEMO : DVI + D-sub 1280*1024 60Hz
 MEMO : CPU : 2.0GHz
 MEMO :

	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	3454.000	50.28	-3.72	54.00	46.36	33.29	34.20	4.83	---	---	Average
2	3670.000	50.53	-3.47	54.00	46.00	33.64	34.17	5.05	---	---	Average
3	3780.000	51.65	-2.35	54.00	46.73	33.89	34.15	5.18	---	---	Average
4 @	3886.000	53.18	-0.82	54.00	47.94	34.09	34.13	5.28	100	166	Average
5 @	4318.000	53.12	-0.88	54.00	47.08	34.68	34.23	5.58	---	---	Average
6	4750.000	49.86	-4.14	54.00	43.48	34.85	34.30	5.84	---	---	Average

- Remark: Frequency from 5000MHz to 11000MHz, the emission emitted by the EUT is too low to be measured.

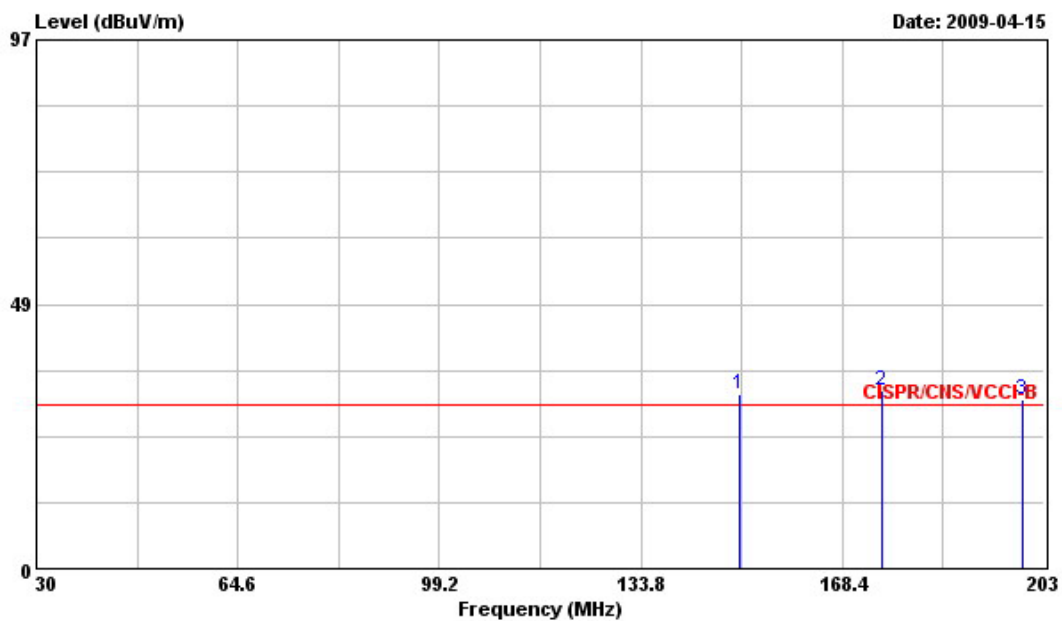
Test Engineer: 
 Chas Yeh

6.4.2. Test Mode: Mode 4

- The mainboard was tested in accordance with section 15.32 of the FCC rules. Testing for radiated emissions was first performed with the mainboard installed in a typical enclosure but with the enclosure's cover removed so that the internal circuitry is exposed at the top and on at least two sides. And then the EUT was tested with enclosure's cover unless it pass the required limits at first condition
- Frequency Range of Test: from 30 MHz to 11,000 MHz
- Temperature: 24
- Relative Humidity: 57 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

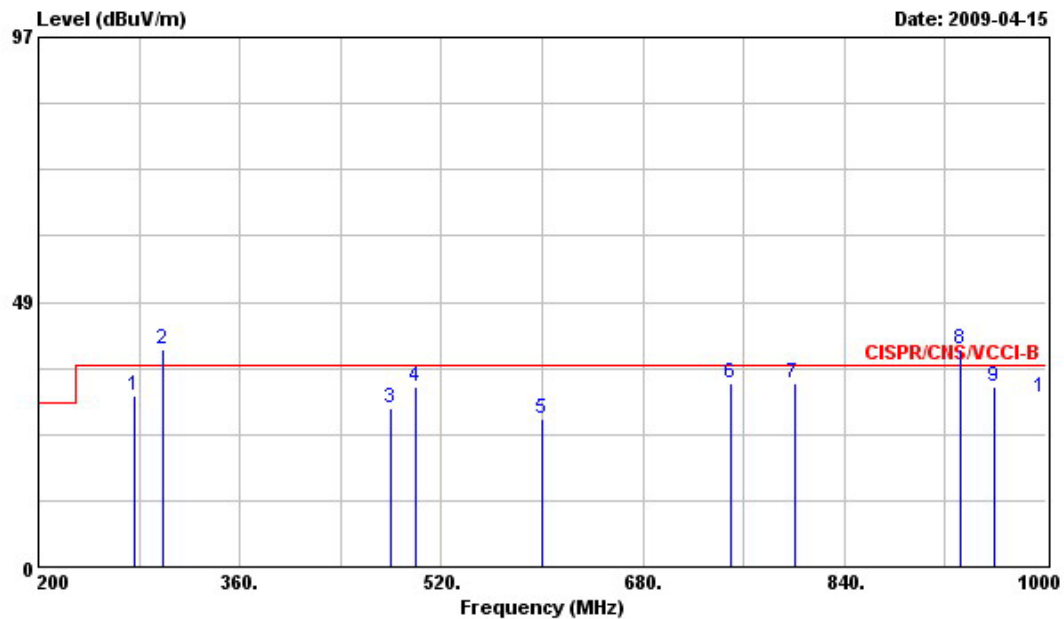
The test was passed at the minimum margin that marked by the frame in the following table

- Test Distance: 10M for 30MHz ~ 1GHz



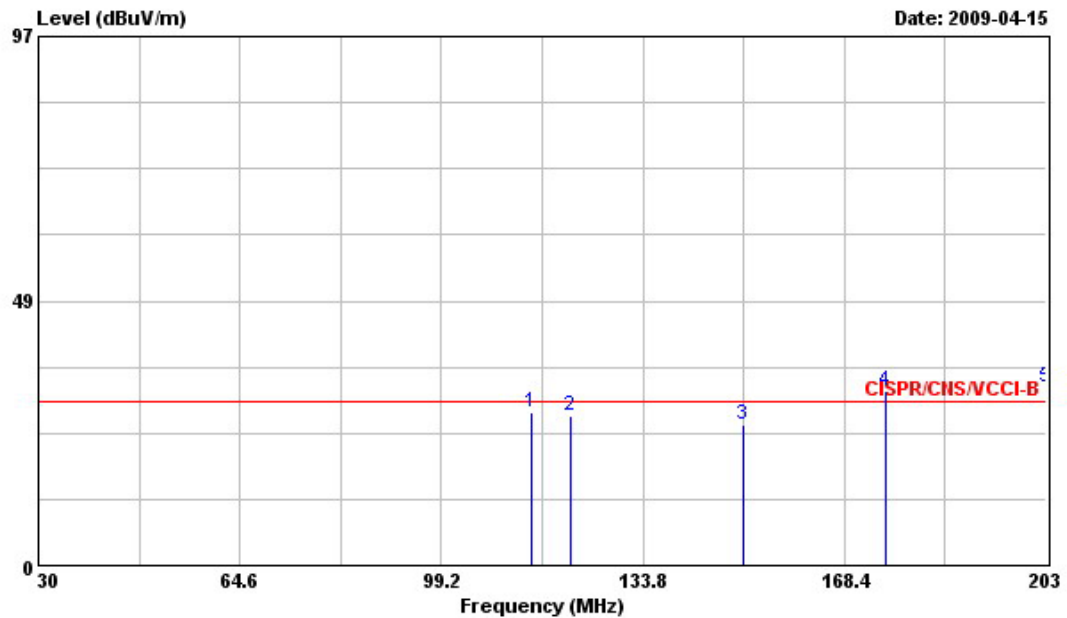
Site : OS02-NH
Condition : CISPR/CNS/VCCI-B 10m OS02-ANT-12-27-2008 VERTICAL
EUT :
POWER :
MEMO : DVI+VGA 1280*1024 60Hz; 1G
: OPEN CASE

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 @	150.750	31.96	1.96	30.00	50.72	10.50	1.74	31.00	Peak	---	---
2 @	175.150	32.80	2.80	30.00	52.31	9.48	1.91	30.90	QP	---	---
3 @	199.370	31.13	1.13	30.00	50.64	9.25	2.05	30.81	QP	---	---



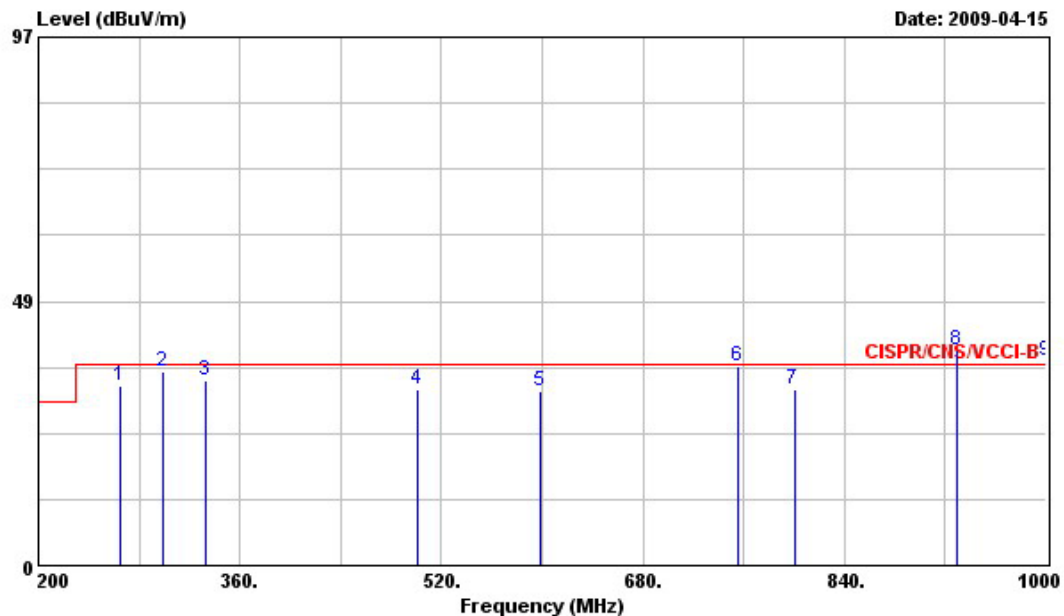
Site : OS02-NH
 Condition : CISPR/CNS/VCCI-B 10m OS02-ANT-12-27-2008 VERTICAL
 EUT :
 POWER :
 MEMO : DVI+VGA 1280*1024 60Hz; 1G
 : OPEN CASE

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	276.000	31.48	-5.52	37.00	46.70	12.99	2.44	30.65	Peak	---
2	298.400	39.89	2.89	37.00	54.54	13.39	2.57	30.61	Peak	100 180
3	479.200	29.10	-7.90	37.00	39.71	17.48	3.35	31.44	Peak	---
4	499.200	33.04	-3.96	37.00	43.14	17.96	3.44	31.50	Peak	---
5	600.000	27.03	-9.97	37.00	35.97	18.72	3.84	31.50	Peak	---
6	749.600	33.60	-3.40	37.00	40.71	19.65	4.39	31.15	Peak	---
7	800.000	33.69	-3.31	37.00	40.00	20.07	4.62	31.00	Peak	---
8	932.800	39.86	2.86	37.00	44.21	20.95	5.16	30.46	Peak	---
9	959.200	32.86	-4.14	37.00	36.83	21.12	5.27	30.36	Peak	---
10	1000.000	31.07	-5.93	37.00	34.46	21.39	5.42	30.20	Peak	---



Site : OS02-NH
 Condition : CISPR/CNS/VCCI-B 10m OS02-ANT-12-27-2008 HORIZONTAL
 EUT :
 POWER :
 MEMO : DVI+VGA 1280*1024 60Hz; 1G
 : OPEN CASE

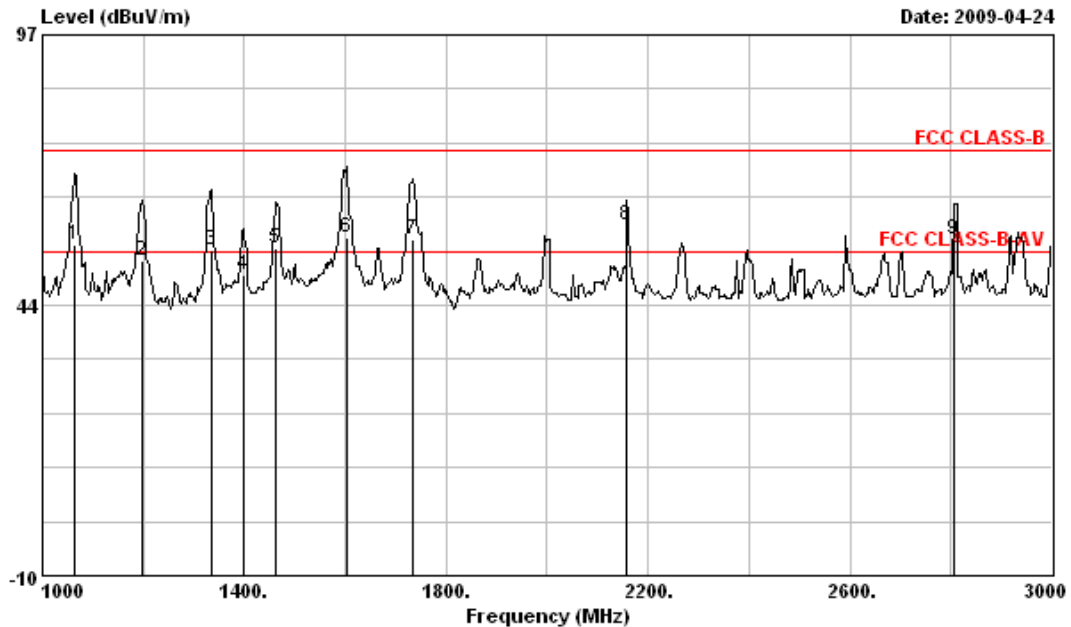
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 @	114.770	28.20	-1.80	30.00	45.94	11.88	1.52	31.14	Peak	---	---
2 @	121.340	27.42	-2.58	30.00	44.69	12.29	1.56	31.12	Peak	---	---
3	150.930	25.89	-4.11	30.00	44.67	10.47	1.75	31.00	Peak	---	---
4 @	175.490	31.87	1.87	30.00	51.38	9.48	1.91	30.90	QP	---	---
5 @	203.000	32.52	2.52	30.00	51.81	9.44	2.06	30.79	QP	---	---



Site : OS02-NH
 Condition : CISPR/CNS/VCCI-B 10m OS02-ANT-12-27-2008 HORIZONTAL
 EUT :
 POWER :
 MEMO : DVI+VGA 1280*1024 60Hz; 1G
 : OPEN CASE

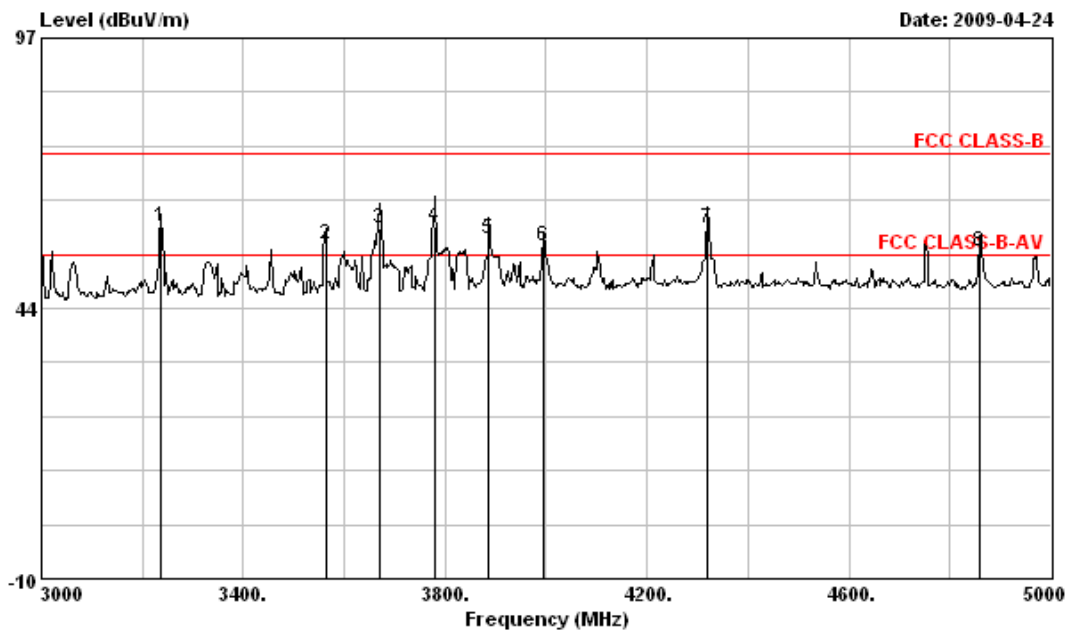
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	265.600	32.88	-4.12	37.00	48.36	12.80	2.39	30.67	Peak	---	---
2 @	298.400	35.50	-1.50	37.00	50.15	13.39	2.57	30.61	Peak	---	---
3 @	332.800	34.08	-2.92	37.00	47.98	14.14	2.75	30.79	Peak	---	---
4	501.600	32.41	-4.59	37.00	42.47	17.99	3.45	31.50	Peak	---	---
5	599.200	31.89	-5.11	37.00	40.85	18.71	3.83	31.50	Peak	---	---
6 @	756.000	36.48	-0.52	37.00	43.50	19.70	4.41	31.13	Peak	---	---
7	800.000	32.38	-4.62	37.00	38.69	20.07	4.62	31.00	Peak	---	---
8 @	929.600	39.47	2.47	37.00	43.89	20.92	5.14	30.48	Peak	---	---
9 @	1000.000	37.43	0.43	37.00	40.82	21.39	5.42	30.20	Peak	---	---

- Test Distance: 3M from 1000 MHz ~ 9000 MHz, 1M from 9000 MHz ~ 11000 MHz



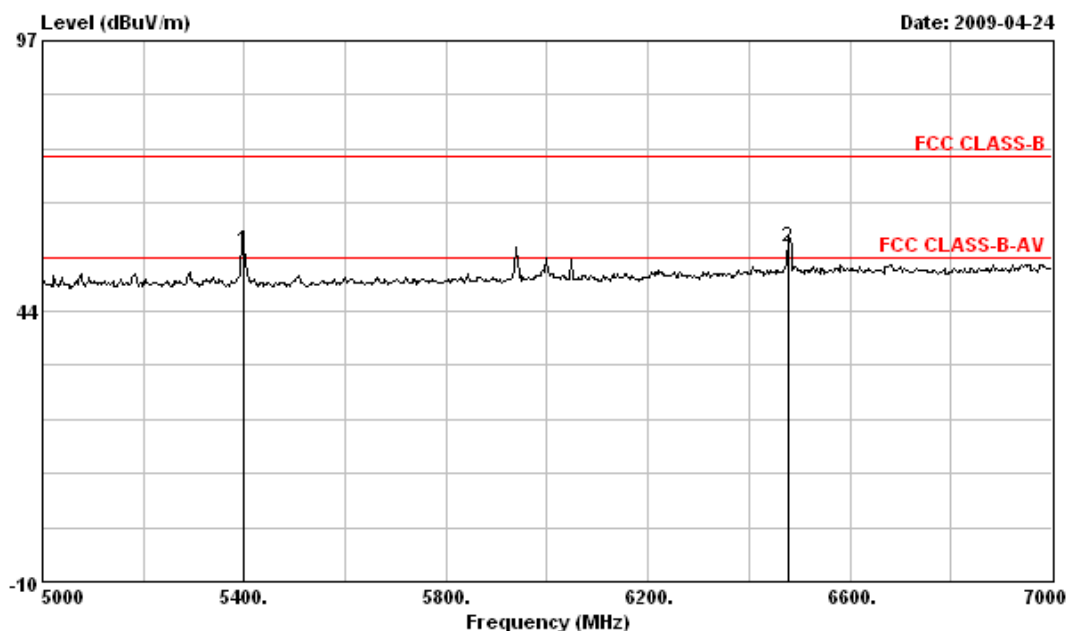
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
 EUT :
 POWER :
 MODEL :
 MEMO : DVI + D-sub 1280*1024 60Hz
 MEMO : CPU : 2.0GHz
 MEMO : OPEN CASE

	Freq	Level	Over	Limit	ReadAntenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1 X	1062.000	55.52	1.52	54.00	59.19	28.36	34.33	2.31	---	Average
2	1196.000	52.33	-1.67	54.00	55.54	28.47	34.12	2.44	---	Average
3 X	1334.000	54.47	0.47	54.00	57.24	28.58	33.95	2.60	---	Average
4	1398.000	49.65	-4.35	54.00	52.19	28.62	33.84	2.68	---	Average
5 X	1462.000	54.88	0.88	54.00	57.25	28.67	33.77	2.73	---	Average
6 X	1604.000	56.83	2.83	54.00	58.10	29.54	33.70	2.89	---	Average
7 X	1734.000	56.64	2.64	54.00	56.91	30.38	33.70	3.05	---	Average
8 @	2158.000	59.30	5.30	54.00	57.15	32.39	33.73	3.49	---	Average
9 X	2806.000	56.49	2.49	54.00	53.42	32.96	34.05	4.16	---	Average



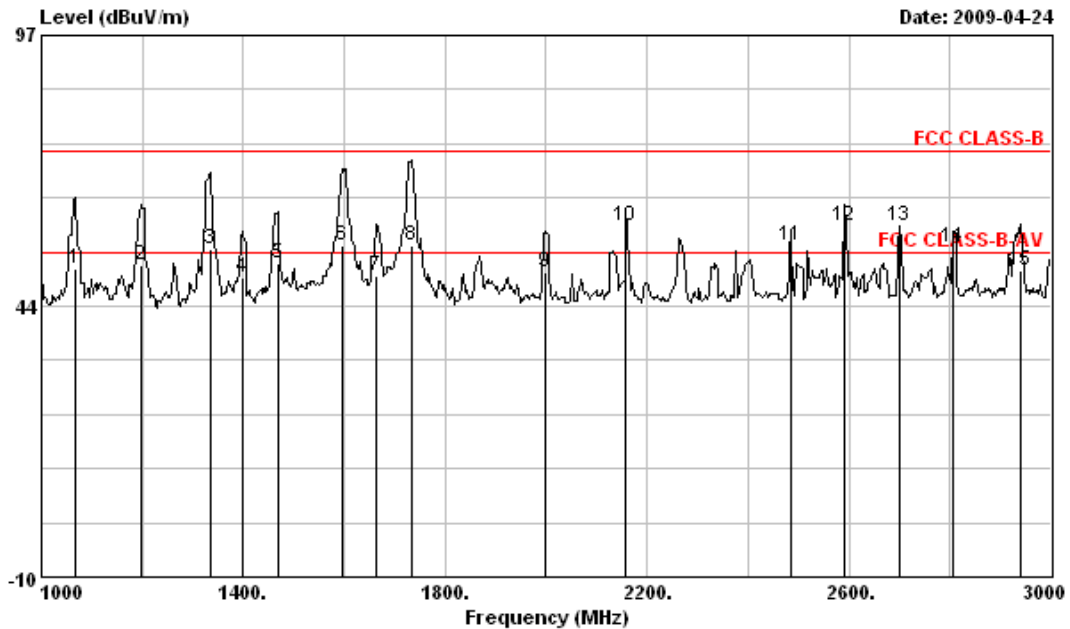
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
 EUT :
 POWER :
 MODEL :
 MEMO : DVI + D-sub 1280*1024 60Hz
 MEMO : CPU : 2.0GHz
 MEMO : OPEN CASE

	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	3238.000	59.67	5.67	54.00	56.01	33.25	34.20	4.61	---	---	Average
2 X	3564.000	56.32	2.32	54.00	52.11	33.44	34.19	4.95	---	---	Average
3 @	3670.000	59.41	5.41	54.00	54.88	33.64	34.17	5.05	---	---	Average
4 @	3780.000	59.81	5.81	54.00	54.89	33.89	34.15	5.18	100	166	Average
5 X	3886.000	57.29	3.29	54.00	52.05	34.09	34.13	5.28	---	---	Average
6 X	3996.000	55.74	1.74	54.00	50.15	34.30	34.11	5.40	---	---	Average
7 @	4318.000	59.49	5.49	54.00	53.45	34.68	34.23	5.58	---	---	Average
8 X	4860.000	54.93	0.93	54.00	48.50	34.83	34.30	5.91	---	---	Average



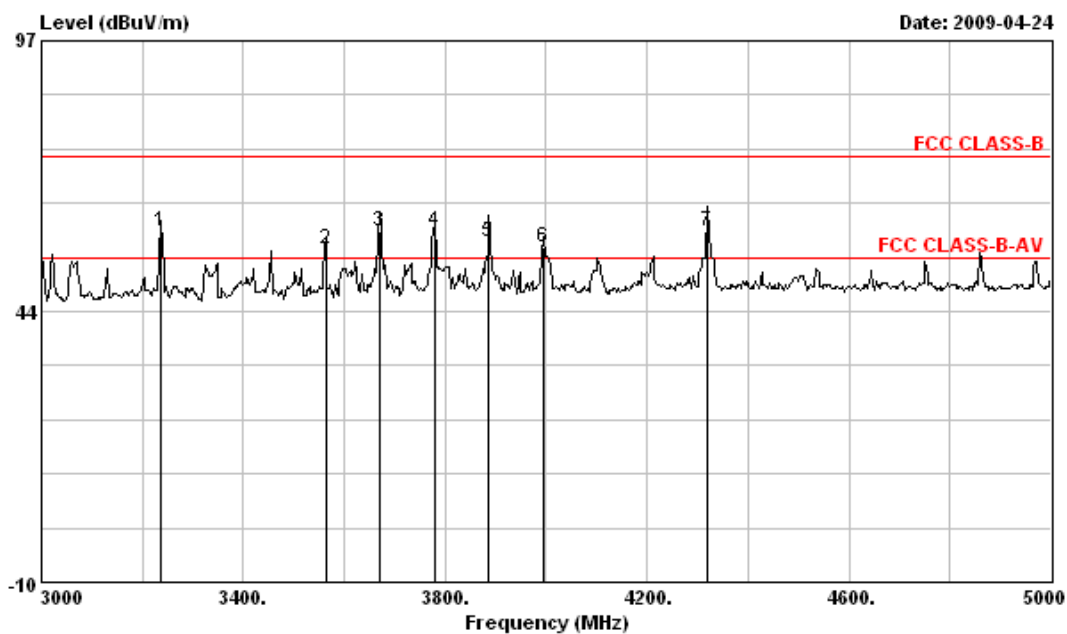
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 VERTICAL
 EUT :
 POWER :
 MODEL :
 MEMO : DVI + D-sub 1280*1024 60Hz
 MEMO : CPU : 2.0GHz
 MEMO : OPEN CASE

	Freq	Level	Over	Limit	Read&Antenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 X	5398.000	55.43	1.43	54.00	48.53	35.04	34.14	6.01	---	--- Average
2 X	6478.000	56.15	2.15	54.00	46.93	35.99	32.96	6.19	---	--- Average



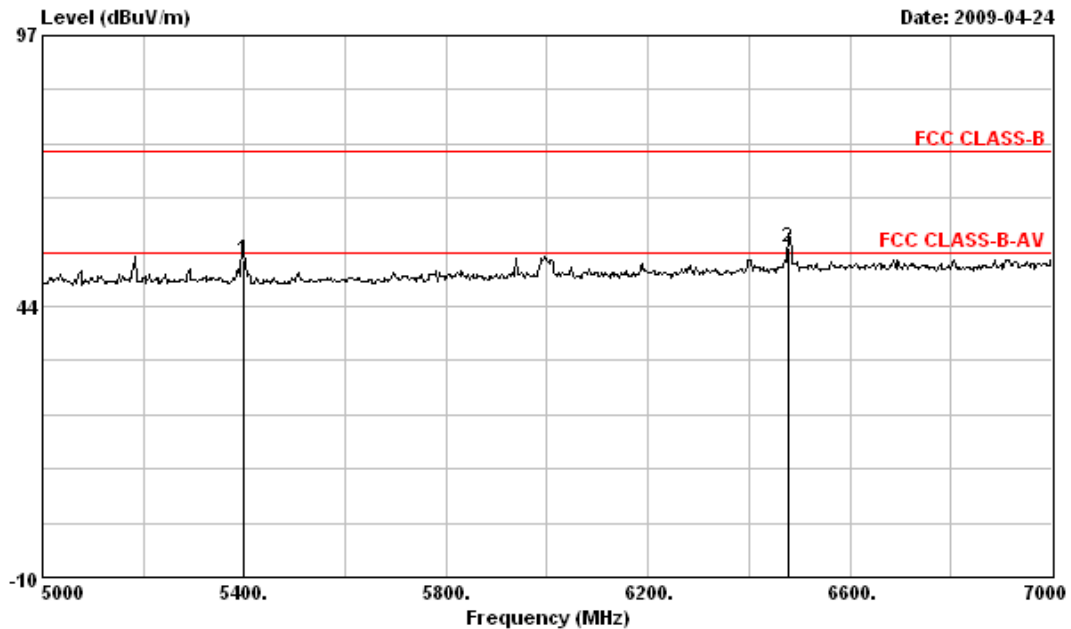
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
 EUT :
 POWER :
 MODEL :
 MEMO : DVI + D-sub 1280*1024 60Hz
 MEMO : CPU : 2.0GHz
 MEMO : OPEN CASE

	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1068.000	50.83	-3.17	54.00	54.46	28.36	34.30	2.31	---	---	Average
2	1196.000	51.43	-2.57	54.00	54.64	28.47	34.12	2.44	---	---	Average
3 X	1334.000	54.81	0.81	54.00	57.58	28.58	33.95	2.60	---	---	Average
4	1398.000	49.18	-4.82	54.00	51.72	28.62	33.84	2.68	---	---	Average
5	1468.000	52.04	-1.96	54.00	54.37	28.69	33.77	2.76	---	---	Average
6 X	1596.000	55.57	1.57	54.00	56.96	29.42	33.70	2.89	---	---	Average
7	1662.000	49.63	-4.37	54.00	50.46	29.90	33.70	2.97	---	---	Average
8 X	1732.000	55.40	1.40	54.00	55.70	30.38	33.70	3.02	---	---	Average
9	1998.000	50.36	-3.64	54.00	48.42	32.30	33.70	3.34	---	---	Average
10 @	2158.000	59.51	5.51	54.00	57.36	32.39	33.73	3.49	---	---	Average
11 X	2484.000	55.36	1.36	54.00	52.73	32.59	33.80	3.84	---	---	Average
12 @	2590.000	59.48	5.48	54.00	56.69	32.72	33.86	3.94	---	---	Average
13 X	2700.000	59.17	5.17	54.00	56.24	32.84	33.97	4.06	---	---	Average
14 X	2806.000	55.14	1.14	54.00	52.07	32.96	34.05	4.16	---	---	Average
15	2940.000	50.57	-3.43	54.00	47.30	33.12	34.16	4.31	---	---	Average



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
 EUT :
 POWER :
 MODEL :
 MEMO : DVI + D-sub 1280*1024 60Hz
 MEMO : CPU : 2.0GHz
 MEMO : OPEN CASE

	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	3238.000	59.40	5.40	54.00	55.74	33.25	34.20	4.61	---	---	Average
2 X	3564.000	55.98	1.98	54.00	51.77	33.44	34.19	4.95	---	---	Average
3 X	3670.000	59.27	5.27	54.00	54.74	33.64	34.17	5.05	---	---	Average
4 @	3780.000	59.31	5.31	54.00	54.39	33.89	34.15	5.18	---	---	Average
5 X	3886.000	57.37	3.37	54.00	52.13	34.09	34.13	5.28	---	---	Average
6 X	3996.000	56.24	2.24	54.00	50.65	34.30	34.11	5.40	---	---	Average
7 X	4318.000	59.28	5.28	54.00	53.24	34.68	34.23	5.58	---	---	Average



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-3117 HORIZONTAL
 EUT :
 POWER :
 MODEL :
 MEMO : DVI + D-sub 1280*1024 60Hz
 MEMO : CPU : 2.0GHz
 MEMO : OPEN CASE

	Freq	Level	Over	Limit	Read	Antenna	Preamp	Cable	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5398.000	52.68	-1.32	54.00	45.78	35.04	34.14	6.01	---	---	Average
2 X	6478.000	54.97	0.97	54.00	45.75	35.99	32.96	6.19	---	---	Average

- Remark: Frequency from 7000MHz to 9000MHz, the emission emitted by the EUT is too low to be measured.

Test Engineer:



Chas Yeh

6.5. Photographs of Radiated Emission Test Configuration

- The photographs show the configuration that generates the maximum emission.

Mode 1

FRONT VIEW



REAR VIEW



- The photographs show the configuration that generates the maximum emission.

Mode 4

FRONT VIEW



REAR VIEW



7. List of Measuring Equipment Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Receiver	R&S	ESCS 30	100357	9 kHz - 2.75 GHz	Nov. 13, 2008	Conduction (CO01-NH)
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz – 30MHz	Nov. 26, 2008	Conduction (CO01-NH)
Power Filter	CORCOM	MR12030	N/A	30A*2	N/A	Conduction (CO01-NH)
RF Cable-CON	Suhner Switzerland	RG223/U	CB004	9kHz – 30MHz	Dec. 16, 2008	Conduction (CO01-NH)
Open Area Test Site	SPORTON	OATS-10	OS02-NH	30 MHz - 1 GHz 10m, 3m	Jan. 04, 2009	Radiation (OS02-NH)
Amplifier	HP	8447D	2944A09068	0.1 MHz - 1.3 GHz	Nov. 10, 2008	Radiation (OS02-NH)
Receiver	R&S	ESCI	100497	9 kHz – 3 GHz	Feb. 19, 2009	Radiation (OS02-NH)
Bilog Antenna	CHASE	CBL6122B	2884	30 MHz - 2 GHz	Dec. 27, 2008	Radiation (OS02-NH)
Turn Table	EMCO	2080	9508-1805	0 - 360 degree	N/A	Radiation (OS02-NH)
Antenna Mast	ETS	2075-2	2385	1 m - 4 m	N/A	Radiation (OS02-NH)
RF Cable-R10m	MIYAZAKI	5DFB	CB002	30 MHz - 1 GHz	Sep. 18, 2008	Radiation (OS02-NH)
Spectrum Analyzer	R&S	FSP40	100793	9 kHz - 30 GHz	Aug. 25, 2008	Radiation
Amplifier	AGILENT	8449B	3008A02373	1 GHz - 26.5 GHz	Jul. 16, 2008	Radiation
RF Cable-HIGH	SUHNER	SUCOFLEX 106	CB063-HF	1 GHz - 40 GHz	Nov. 29, 2008	Radiation
Horn Antenna	ETS	3117	00075954	1GHz ~ 18GHz	Apr. 25, 2008	Radiation

Calibration Interval of instruments listed above is one year.

8. Uncertainty of Test Site

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.20	Normal(k=2)	0.10
Cable loss	0.19	Normal(k=2)	0.10
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.75	Rectangular	1.01
Mismatch	+0.44/-0.46	U-shape	0.32
combined standard uncertainty Uc(y)	1.31		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.62		

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.27	Normal(k=2)	0.14
Antenna factor calibration	0.92	Normal(k=2)	0.46
Cable loss calibration	0.16	Normal(k=2)	0.08
Pre Amplifier Gain calibration	0.17	Normal(k=2)	0.09
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.99	Rectangular	1.15
Mismatch	+0.50/-0.54	U-shaped	0.37
combined standard uncertainty Uc(y)	1.52		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	3.04		



APPENDIX A. Photographs of EUT





